

**ABSTRACT**

When transmitting data on burst basis, a symbol having an increased modulation multinary number is partially inserted into the transmission burst on the symbol basis and a transmission burst including a symbol having an increased modulation multinary number is transmitted. Moreover, when receiving data transmitted on burst basis, the data is received by judging whether a symbol is at a symbol position where a symbol having an increased modulation multinary number is inserted into the received burst signal or a symbol is at a symbol position other than this. Thus, it is possible to assure reliability of communication and increase the communication capacity.